CLAIMS

What is claimed is:

1   1.   A hand-held computing device for providing communication services and symbol

2   processing comprising:

3   a case having a front side, a back side, and a user input device;

4   the case enclosing control logic for providing communication services and control

5   logic for performing symbol processing;

6   a display located on the front side of the case; and

7   a lid having a transparent portion, the lid being connected to said front side; said

8   lid extending over the display in a lid closed state, the user input device being physically

9   accessible for receiving input in the lid closed state.

1   2.   The device of claim 1 wherein said front side further has a QWERTY keyboard,

2   the lid extending over the keyboard in the lid-closed state.

1   3.   The device of claim 1 wherein the display is a touch-sensitive display.

1   4.   The device of claim 1 wherein the display is a color display.

1   5.   The device of claim 1 wherein a speaker is located in the lid, the speaker being

2   coupled to the control logic for providing communication services.

1   6.   The device of claim 1 wherein the control logic for providing communication

2   services includes a radio module for providing radio communications.

1   7.   The device of claim 6 wherein the radio module provides voice communication

2   functionality.

1   8.   The device of claim 2 wherein the QWERTY keyboard comprises a touch-tone

2   telephone keypad arrangement of keys representing the symbols "0" to "9".

1   9.   The device of claim 8 wherein one or more of the keys associated with a symbol

2   in the telephone keypad arrangement has a telephone keypad key indicator.

1   10.   The device of claim 2 wherein input from the keyboard is disabled in the lid

2   closed state, a repeat functionality for the user input device is disabled in the lid closed

3   state, and a timeout setting for receiving indication of further activation of the device is

4   shorter in the lid-closed state than in the lid-open state.

1   11.   The device of claim 1 wherein the case further comprises a first side and wherein

2   the user input device is a jog rocker located on the first side.

1   12.   The device of claim 1 wherein the user input device is an application button

2   located on the front of the case.

1   13.   The device of claim 1 further comprising a top part and a bottom part and a

2   stylus holder, the holder having an upper portion in the top part of the case and extending

3   within the case toward the bottom part, the upper portion of the stylus holder having a

4   rim having a first downward slope for causing a lip of a stylus having a second downward

5   slope to slide along the rim transforming rotary motion of the stylus into a linear motion

6   of the stylus within the holder.

1   14.   The device of claim 1 further comprising:

2   a door in the case, said door having a holder for an identification card; and

3   a card detector unit within the case for detecting the presence of the identification

4   card.

1   15.   The device of claim 1 wherein the display further includes a handwriting area for

2   data entry.

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1　16.　In a hand-held computing device for providing communication services and

2　symbol processing, the device comprising a case having a front side and a user input

3　device, the front side comprising a display and a lid comprising a transparent portion, the

4　lid being connected to the front side and extending over the display in a lid closed state,

5　the user input device being physically accessible for receiving input in the lid-closed

6　state, a method for processing input responsive to transitions in the lid state, the method

7　comprising:

8　　　　detecting a transition from the lid-closed state to a lid-open state wherein the

9　device is in a device power-save state;

10　　　　transitioning the device from the device power-save state to a device power-on

11　state; and

12　　　　launching an application.

1　17.　The method of claim 16 wherein the application is a telephone application.

1　18.　The method of claim 16 further comprising:

2　　　　responsive to being in the device power-on state and detecting a transition from

3　the lid-open state to the lid-closed state, transitioning the device from the device power-

4　on state to the device power-save state.

1　19.　The method of claim 17 further comprising wherein the device is in the device

2　power-on state and the lid-open state:

3　　　　receiving an incoming call notification;

4　　　　detecting a transition from the lid-open state to the lid-closed state after a

5　notification time period for an incoming call; and

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6   transitioning the device from the device power-on state to the device power-save

7   state.

1   20.   The method of claim 17, wherein the device is in the device power-on state and

2   the lid-open state, the method further comprising:

3   processing an active call during a hands-free attachment state;

4   detecting a transition from the lid-open state to the lid-closed state;

5   transitioning the device from the device power-on state to the device power-save

6   state; and

7   maintaining the active call until receiving direction to end the call.

1   21.   The method of claim 17, wherein the device is in the device power-on state and

2   the lid-open state, the method further comprising:

3   processing an active call during a no-hands-free attachment state;

4   detecting a transition from the lid-open state to the lid-closed state;

5   ending the active call; and

6   transitioning the device from the device power-on state to the device power-save

7   state.

1   22.   In a hand-held computing device for providing communication services and

2   symbol processing, the device comprising a case having a front side and a user input

3   device, a display located on the front side, and a lid being connected to the front side, the

4   lid having a transparent portion, the lid extending over the display in a lid closed state,

5   the user input device being physically accessible for receiving input in the lid-closed

6   state, a method for processing input from the user input device in the lid-closed state, the

7   method comprising:

8   responsive to receiving input indicating activation of the user input device,

9   transitioning the device from a device power-save state to a device power-on

10   state;

11   launching an application; and

12   displaying a view of the application on the display.

1   23.   The method of claim 22, wherein the user input device is an application button

2   located on the front side of the device, the application button being physically accessible

3   for receiving input in a lid-closed state wherein the method further comprises:

4   receiving input indicating activation of an application button;

5   launching an application associated with the button; and

6   displaying a view of the application associated with the button on the display.

1   24.   The method of claim 22, wherein the case further comprises a first side and the

2   user input device is a jog rocker located on the first side of the case, the jog rocker being

3   physically accessible for receiving input in a lid-closed state wherein the method further

4   comprises:

5   receiving input indicating activation of the jog rocker;

6   performing a function associated with the jog rocker; and

7   updating a view in accordance with performing the function.

1   25.   A hand-held computing device comprising:

2   a case having a front side having a QWERTY keyboard, the keyboard comprises a

3   touch-tone telephone keypad arrangement of keys representing the symbols "0" to "9".

1   26.   The device of claim 25 wherein one or more of the keys associated with a symbol

2   in the telephone keypad arrangement has a telephone keypad key indicator.

1   27.   The device of claim 25 wherein a row of the QWERTY keyboard includes a key

2   representing the "*" symbol next to a key of the telephone keypad arrangement.

1   28.   The device of claim 25 wherein a row of the QWERTY keyboard includes a key

2   representing the "#" symbol next to a key of the telephone keypad arrangement.

1   29.   The device of claim 25 wherein keys of the QWERTY keyboard are each slanted

2   in the same direction.